

# MOLDED SWITCH

## RA-901

### Miniature SMD

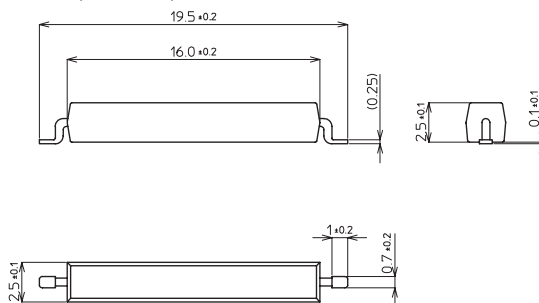
#### ■ GENERAL DESCRIPTION

The RA-901 is a molded switch made by molding the glass tube of ORD228VL with resin and processing the leads. It ensures ease of handling of the switch while maintaining the excellent characteristics of ORD228VL.

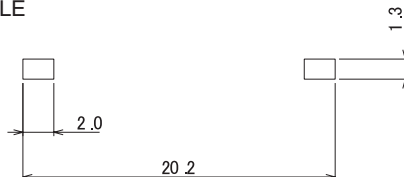
#### ■ FEATURES

- (1) It has a gull wing shape lead suitable for SMT.
- (2) Automatic mounting of component by tape and reel feed is possible.
- (3) It features enhanced shock resistance characteristics due to resin mold that protects the glass tube.
- (4) General Purpose Miniature

#### ■ EXTERNAL DIMENSIONS (Unit: mm)



#### ■ PAD LAYOUT SAMPLE



#### ■ APPLICATIONS

- Automotive electronic devices
- Control equipment
- Communication equipment
- Measurement equipment
- Household appliances

■ SPECIFICATION

|                             |                            |
|-----------------------------|----------------------------|
| Contact form                | 1A                         |
| Pull-in value (PI)          | 15~49AT                    |
| Drop-out value (DO)         | 10AT (Min.)                |
| Contact resistance (CR)     | 100mΩ (Max.)               |
| Contact rating              | 10W (Max.)                 |
| Maximum switching voltage   | 100V                       |
| Maximum switching current   | 0.5A                       |
| Maximum carry current       | 1.0A                       |
| Breakdown voltage           | 200V (Min.)                |
| Insulation resistance       | 1×10 <sup>9</sup> Ω (Min.) |
| Operate time                | 0.4ms (Max.)               |
| Bounce time                 | 0.3ms (Max.)               |
| Release time                | 0.05ms (Max.)              |
| Shock resistance            | 50G—11ms                   |
| Vibration resistance        | 50G (10~2000Hz)            |
| Operating temperature range | —40~125℃                   |
| Storage temperature range   | —50~125℃                   |

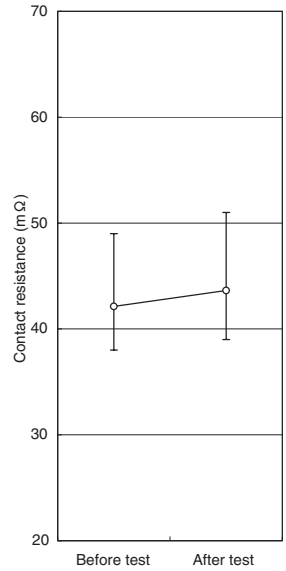
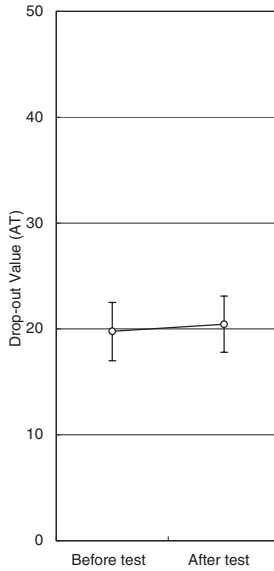
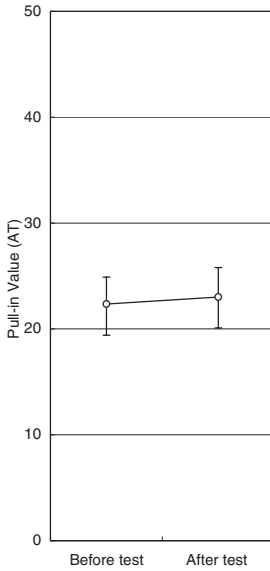
■ PULL-IN VALUE TABLE

|                    |       |       |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Model No.          | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
| Pull-in value (AT) | 15~34 | 18~36 | 19~39 | 21~42 | 24~45 | 27~49 | 30~49 | 34~49 |

■ ENVIRONMENTAL CHARACTERISTICS

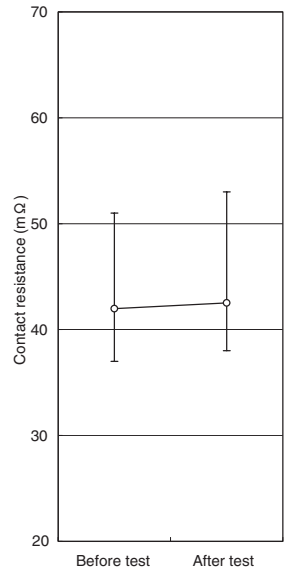
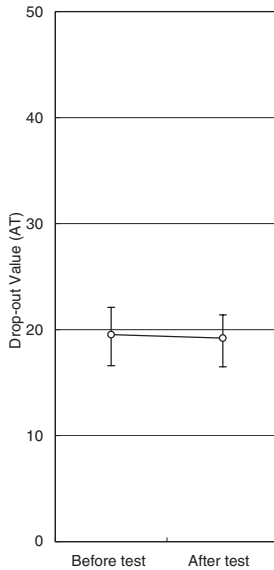
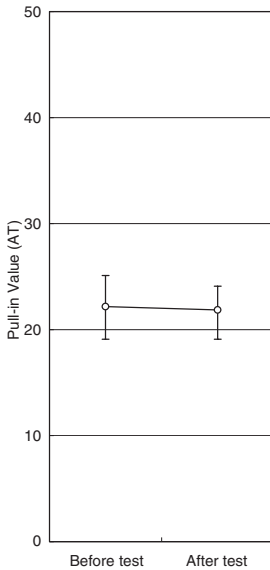
(1) Temperature cycle

(-55°C ~ +125°C)

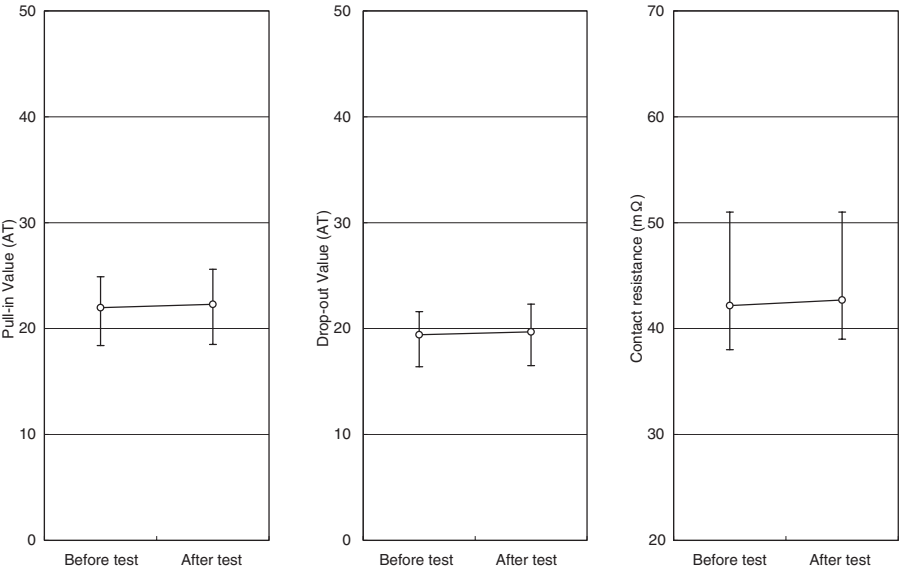


(2) Temperature and humidity cycle

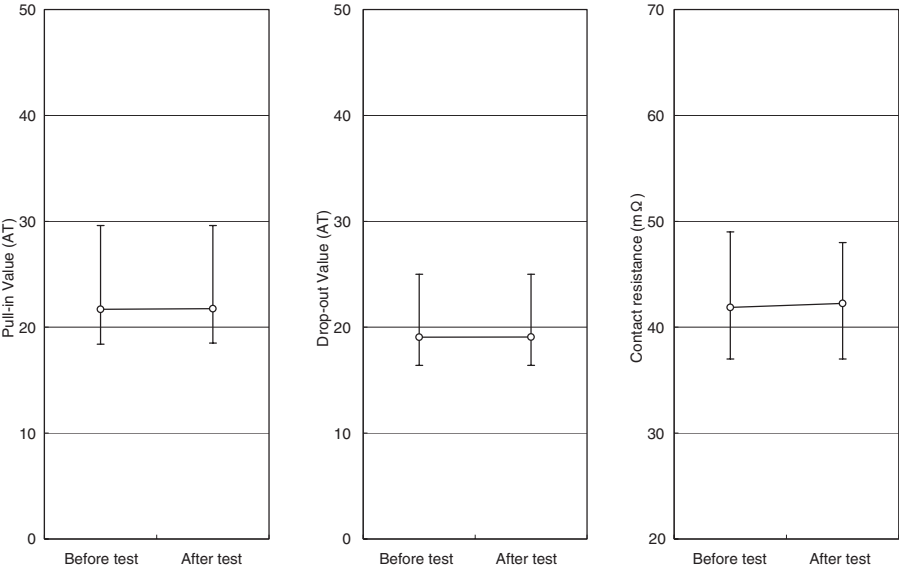
(-10°C ~ +65°C 80% ~ 98%)



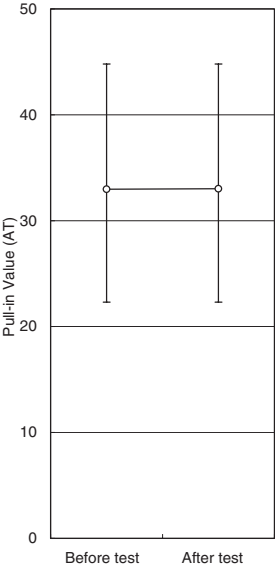
(3) High temperature storage test (125℃ 500H)



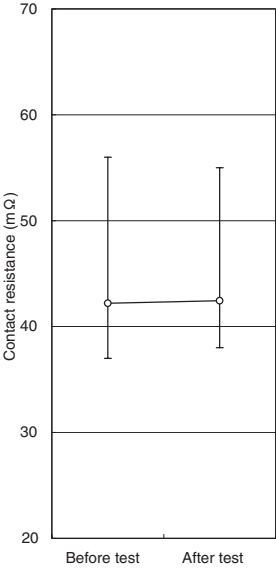
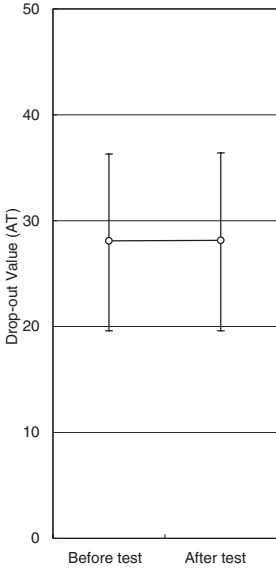
(4) Low temperature storage test (-40℃ 500H)



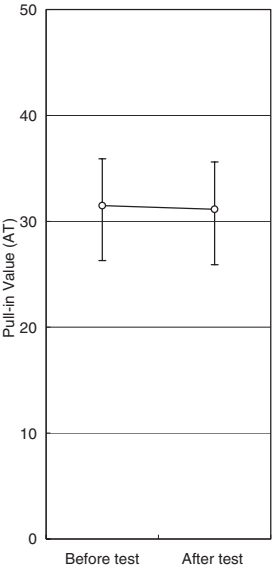
(5) Shock test



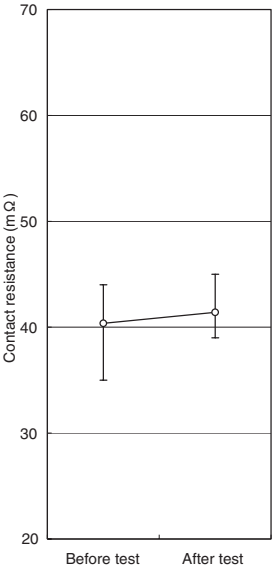
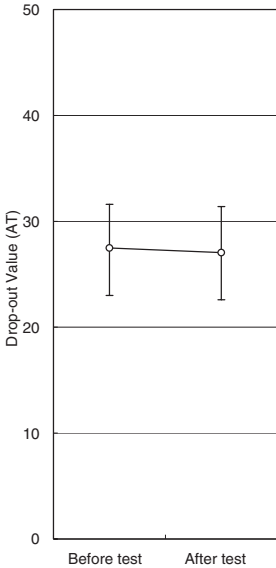
(50G 11msec)



(6) Vibration test



(50G 10~2000Hz)



( $\phi$  10mm steel ball free fall impact height 230 mm)

